



Title: DSP-4 DUAL-SPECIFICITY PHOSPHATASE

Express Mail No. EV207699786US

Inventor(s): Ralf M. Luche and Bo Wei Serial No. 09/544,517 Docket No. 200125.410

DSP4, ENCODED BY 651 BASE PAIRS

ACATTGCATC CCTGGGATAA ACGGACCTGG ACAACTCACT CTCTTGGTCT GTGGCTGCTG CGGTTACCTG GATGGGCGAA CACCTCTGAG
GCTGGCTTTG TTACCTGGGC AATAAGGGAC TAGCAGTTCA GCCGTTTCT ATGCTGCTG GATTGTGTTG TATTTGTTCC CAGCCACTGC
TCATGTAATG TACTCCCTTA ACCAGGAAAT TAAAGCATTC TCCCGGAATA ATCTCAGGAA GCAATGCACC AGGGTGACAA CGCTAACTGG
AAAGAAAATT ATAGAAACAT GGAAAGATGC CAGAATTCAT GTTGTTGAAG AAGTAGAGCC GAGCAGTGGG GGTGGTTGTG GTTATGTGCA
GGACCTTAGC TCGGACCTGC AAGTTGGCGT TATTAAGCCA TGGTTGCTCC TAGGGTCACA AGATGCTGCT CATGATTTGG ATACACTGAA
AAAGAATAAG GTGACTCATA TTCTTAATGT TGCATATGGA GTTGAAAATG CTTTCCTCAG TGACTTTACA TATAAGAGCA TTTCTATATT
GGATCTGCCT GAAACCAACA TCCTGTCTTA TTTCCAGAA TGTTTGAAT TTATTGAAGA AGCAAAAAGA AAAGATGGAG TGGTTCTTGT
TCATTGTAAT GCAGGCGTTT CCAGGGCTGC TGCAATTGTA ATAGGTTTCC TGATGAATTC TGAACAAACC TCATTACCA GTGCTTTTTC
TTTGGTGAAA AATGCAAGAC CTCCATATG TCCAAATTCT GGCTTCATGG AGCAGCTCG TACATATCAA GAGGGCAAAG AAAGCAATAA
GTGTGACAGA ATACAGGAGA ACAGTTCATG AGTTGCATTG TAGCAGACAA TGGACAACTG TAGTTTCTGA ATTGACTTCT ATAGCCATCT
TTTCCCTTTT TTGGAGAGTA GACTAGCAAA ACTCCCTTTT TTCTCTTGCC TTTTTATGC ATAAATGGAG GTCAATCTGA TTGTCCTGAC
CTACTGTATA AGTAAATTTT AAATGTCATT ACTTCTCTT TGTATTATA ATGTGTGATT AAATGCTTTT TTAAATTGCT AAGGGAAAAT
AAAAAAA

Fig. 1

TRANSLATED, 217 AMINO ACIDS

MYSLNQEIKAFSRNNLRKQCTRVTTLTGKKI IETWKDARIHVVEEVEPSSGGGCGYVQDLSSDLQVGVIKPWL
LLGSQDAAHDLTLKKNKVTHILNVAYGVENAF L SDF TYK S I L D L P E T N I L S Y F P E C F E F I E E A K R K D G V V
LVHCNAGVSRAAAIVIGFLMNSEQTSFTSAFSLVKNARPSICPNSGFMEQLR TYQEGKESNKCDRIQENSS

Fig. 2



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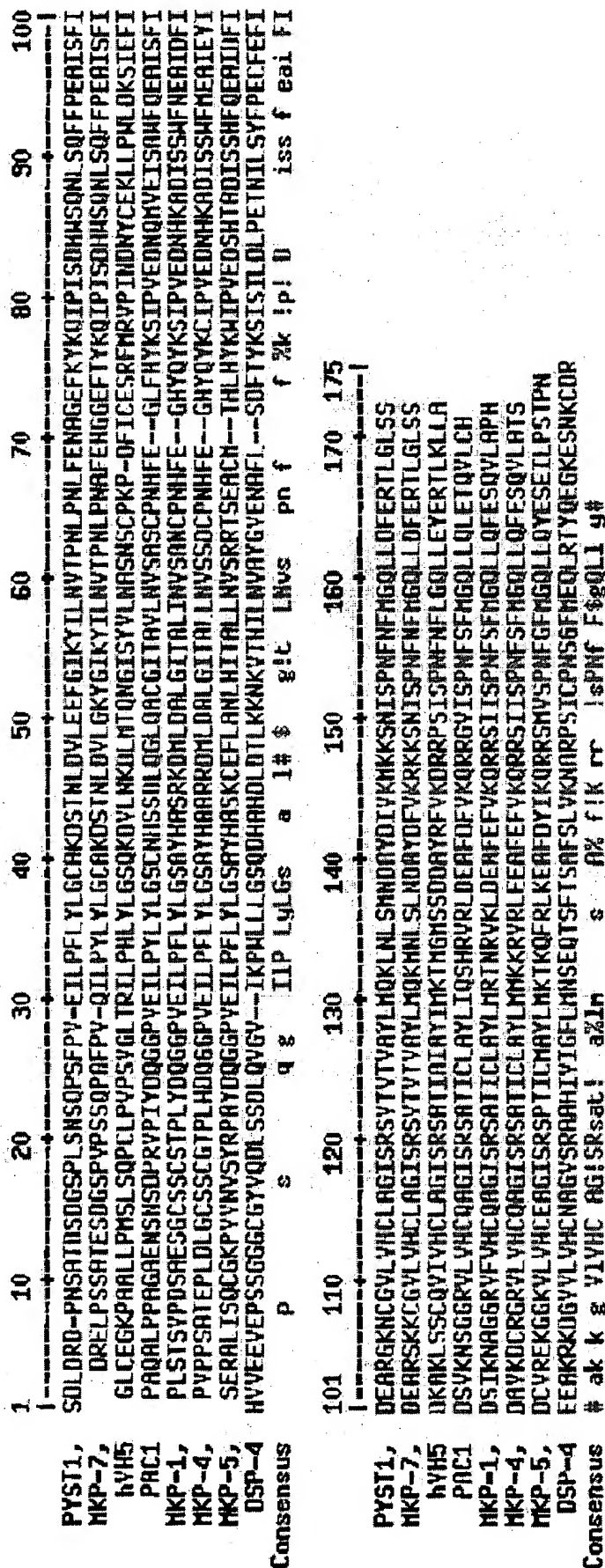


Fig. 3



DSP-4

Northern blot analysis

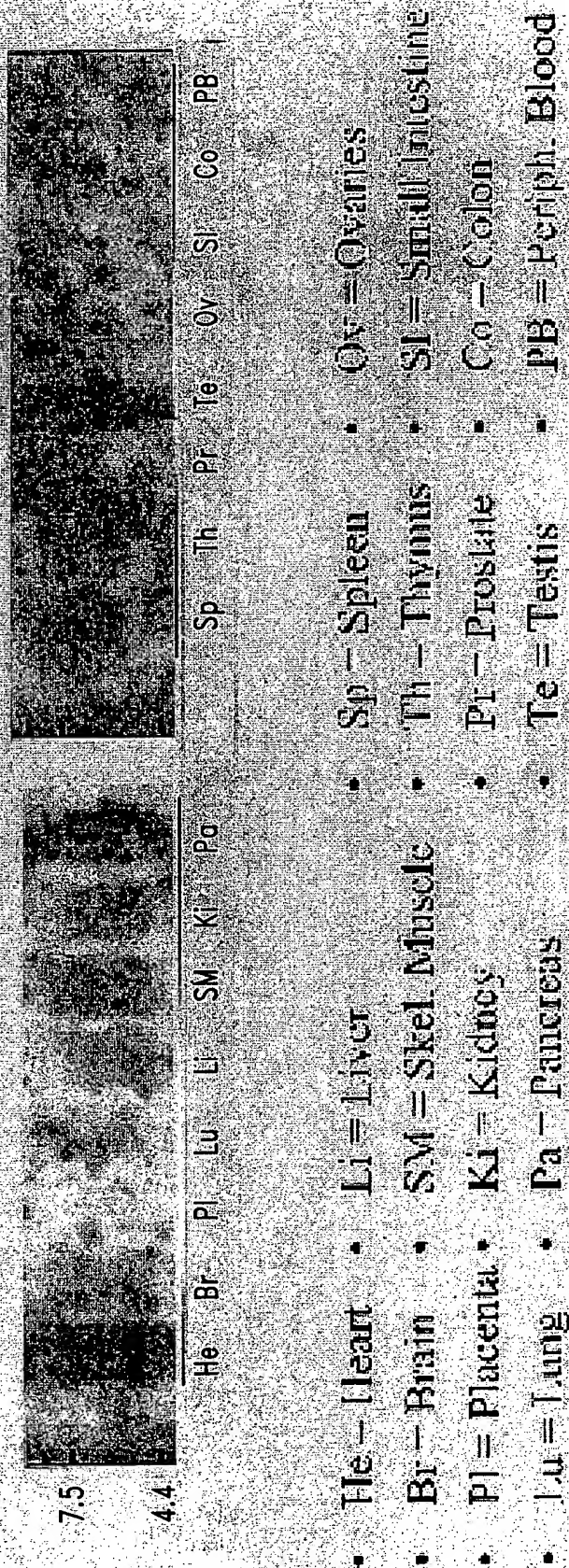


Fig. 4